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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	8	Attorney Docket Number	63558C
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		
AA*	US-5,391,629		02-21-1995	Turner et al.	
AB*	US-6,566,446		05-20-2003	Parikh et al.	
AC*	US-3,873,642-A		03-25-1975	Jezi	
AD*	US-5,468,810-A		11-21-1995	Hayakawa et al.	
AE*	US-5,594,080-A		01-14-1997	Waymouth et al.	
AF*	US-5,610,253-A		03-11-1997	Hatke et al.	
AG*	US-5,733,980-A		03-31-1998	Cozewith et al.	
AH*	US-5,798,420-A		08-25-1998	Cozewith et al.	
AI*	US-5,969,070-A		10-19-1999	Waymouth et al.	
AJ*	US-6,114,457-A		09-05-2000	Markel et al.	
AK*	US-6,147,180-A		11-14-2000	Markel et al.	
AL*	US-6,262,203-B1		07-17-2001	Chien et al.	
AM*	US-6,566,544-B1		05-20-2003	Waymouth et al.	
AN*	US-20040121922		06-24-2004	Okada et al.	
AO*	US-20030027954		02-06-2003	Becke et al.	
AP*	US-20040092662		05-13-2004	Goto et al.	
AQ*	US-6,187,424		02-13-2001	Kjellqvist et al.	
AR*	US-6,197,404		03-06-2001	Varona	
AS*	US-6,362,252		03-26-2002	Prutkin	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number-Kind Code ⁴ (if known)	MM-DD-YYYY			
BA	WO-95/27746-A1		10-19-1995	Exxon Chemical Patents Inc		✓
BB	WO-95/27745-A1		10-19-1995	Exxon Chemical Patents Inc		
BC	WO-9834970-A1		08-13-1998	Exxon Chemical Patents Inc		
BD	WO-9935171-A1		07-15-1999	Univ Leland Stanford Junior et al.		
BE	WO-0037514-A1		06-29-2000	Exxon Chemical Patents Inc		
BF	WO-02/066540-A2		08-29-2002	Basell Pololefine Spa et al.		

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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with § 1.6(a)(4).

Dated: November 18, 2009

Electronic Signature for Jennifer Adamson: /Jennifer Adamson/

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Sheet 2 of 8

Complete if Known

Application Number	10/589,379	Conf. #7039
Filing Date	August 14, 2006	
First Named Inventor	Daniel J. Arriola	
Art Unit	1796	
Examiner Name	Choi, Ling Siu	
Attorney Docket Number	63558C	

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
AT*	US-6,537,472		03-25-2003	Masubuchi	
AU*	US-6,815,023		11-09-2004	Tatarka et al.	
AV*	US-7,005,395		02-28-2006	Zafiroglu et al.	
AW*	US-20030195128		10-16-2003	Deckman et al.	
AX*	US-20030216518		11-20-2003	Tau et al.	
AY*	US-20040082750		04-29-2004	Tau et al.	
AZ*	US-20040192147		09-30-2004	Smith et al.	
AA1*	US-20050009993		01-13-2005	Morioka et al.	
AB1*	US-20060030667		02-09-2006	Yalvac et al.	
AC1*	US-20040158011		08-12-2004	Jain et al.	
AD1*	US-20080299857		12-04-2008	Harding et al.	
AE1*	US-5,624,991		04-29-1997	Harada et al.	
AF1*	US-6,160,029		12-12-2000	Chaudhary et al.	
AG1*	US-6,455,638		09-24-2002	Laughner et al.	
AH1*	US-2,973,344		02-28-1961		
AI1*	US-4,146,492		03-27-1979	Cusano et al.	
AJ1*	US-4,299,931		11-10-1981	Coran et al.	
AK1*	US-4,429,079		01-31-1984	Shibata et al.	
AL1*	US-4,510,031		04-09-1985	Matsumura et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
BG	WO-03014046-A1		02-20-2003	Bp Chem Int Ltd et al.		
BH	EP-0274906-A2		07-20-1988	Mitsubishi Petrochemical Co		
BI	EP-0958313B1-A1		11-24-1999	Exxon Chemical Patents Inc		
BJ	EP-1262498-A2		12-04-2002	Mitsui Chemicals Inc		
BK	JP-2002-206007A-A		07-26-2002	Nat Inst Of Adv Ind & Technol et al.		
BL	JP-2004-204058A-A		07-22-2004	Mitsui Chemicals Inc		

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Art Unit	1796	
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Attorney Docket Number	63558C	

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		Number-Kind Code ² (if known)			
AM1*	US-4,780,228		10-25-1988	Gardiner et al.	
AN1*	US-5,068,047		11-26-1991	Chung et al.	
AO1*	US-5,266,626		11-30-1993	Hert et al.	
AP1*	US-5,322,728		06-21-1994	Davey et al.	
AO1*	US-5,597,881		01-28-1997	Winter et al.	
AR1*	US-5,783,531		07-21-1998	Andrew et al.	
AS1*	US-5,916,953		06-29-1999	Jacoby et al.	
AT1*	US-6,025,448		02-15-2000	Swindoll et al.	
AU1*	US-6,096,668		08-01-2000	Abuto et al.	
AV1*	US-6,121,402		09-19-2000	Machida et al.	
AW1*	US-6,136,937		10-24-2000	Lai et al.	
AX1*	US-4,798,081		01-17-1989	Hazlitt et al.	
AY1*	US-6,008,262		12-28-1999	McKay et al.	
AZ1*	US-2,997,432		08-22-1961		
AA2*	US-5,868,984		02-09-1999	Winter et al.	
AB2*	US-5,892,076		04-06-1999	Nickias	
AC2*	US-5,994,255		11-30-1999	Nickias et al.	
AD2*	US-6,323,284		11-27-2001	Peacock	
AE2*	US-20030088037		05-08-2003	Stevens et al.	

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		Country Code ³ , Number ⁴ , Kind Code ⁵ (if known)			
BM	EP-1026184-A1		08-09-2000	Grand Polymer Co Ltd	
BN	WO-05/090426-A1		09-29-2005	Dow Global Technologies Inc et al.	
BO	EP-02079322-A1		07-22-2009	Symrise Gmbh & Co Kg	
BP	EP-0877050-A2		11-11-1998	Dow Chemical Co	
BQ	JP-2004204058-A		07-22-2004	Mitsui Chemicals Inc	
BR	WO-2004046214-A2		06-03-2004	Exxonmobil Chem Patents Inc et al.	

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Sheet 4 of 8

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First Named Inventor	Daniel J. Arriola	
Art Unit	1796	
Examiner Name	Choi, Ling Siu	
Attorney Docket Number	63558C	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AF2*	US-20030195308	10-16-2003	Waymouth et al.		
AG2*	US-6,380,341	04-30-2002	Waymouth et al.		
AH2*	US-20020107341	08-08-2002	Murray et al.		
AI2*	US-20020161141	10-31-2002	Mawson et al.		
AJ2*	US-20040044154	03-04-2004	Kuo et al.		
AK2*	US-20030153689	08-14-2003	Mehta et al.		
AL2*	US-20030114623	06-19-2003	Mitani et al.		
AM2*	US-6,169,151	01-02-2001	Waymouth et al.		
AN2*	US-5,210,338	05-11-1993	Samsel		
AO2*	US-5,276,220	01-04-1994	Samsel et al.		
AP2*	US-6,444,867	09-03-2002	Samsel et al.		
AQ2*	US-3,970,719	07-20-1976	Edmonds, Jr.		
AR2*	US-4,039,632	08-02-1977	Edmonds, Jr.		
AS2*	US-4,971,936	11-20-1990	Wilson et al.		
AT2*	US-5,089,573	02-18-1992	Job		
AU2*	US-5,118,767	06-02-1992	Job		
AV2*	US-5,118,768	06-02-1992	Job et al.		
AW2*	US-5,134,209	07-28-1992	Job et al.		
AX2*	US-5,229,477	07-20-1993	Job et al.		

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
BS	WO-9849211-A1		11-05-1998	Dow Chemical Co et al.		
BT	WO-03022890-A1		03-20-2003	Exxonmobil Chem Patents Inc et al.		
BU	EP-1197500-A1		04-17-2002	Mitsui Chemicals Inc		
BV	WO-9834970-A1		08-13-1998	Exxon Chemical Patents Inc		
BW	EP-470171-A1		02-12-1992	Shell Oil Co		
BX	EP-500530-A1		09-02-1992	Shell Oil Co		

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<i>(Use as many sheets as necessary)</i>				Filing Date	August 14, 2006
				First Named Inventor	Daniel J. Arriola
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				Examiner Name	Choi, Ling Siu
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Sheet	6	of	8	First Named Inventor	Daniel J. Arriola
				Art Unit	1796
				Examiner Name	Choi, Ling Siu
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	CA	LIEBER SuSANNA ET AL: "Propene polymerization with catalyst mixtures containing different ansa-zirconocenes:chain transfer to alkylaluminum cocatalysts and formation of stereoblock polymers" MACROMOLECULES; MACROMOLECULES Dec 2000 ACS, Washington, DC. USA, vol 33, no. 25, December 2000 (2000-12), Pages 9192 - 9199			
	CB	PRZYBYLA, FINK: "Two Different on the same silica supported metallocene catalysts, activated by various trialkylaluminums" ACTA POLYMERICA, vol. 50, 21 April 1999 (1999-04-21), pages73-83.			
	CC	CHIEN JAMES C W ET AL: " Homogeneous binary zirconocenium catalystst for propylene ploymerization. II. Mixtures of isospecific and syndiospecific zirconocene systems" J POLYM SCI PART A; PLOYMER CHEMISTRY 1999 JOHN WILEY & SONS INC. NEW YORK, NY USA. , vol 37, np.17,1999, pages 2439 -2445			
	CD	TANIM B S ET AL: " Blends of single-site linear and branched polyethylene. I. Thermal characterisation" POLYMER, ELESVIER SCIENCE PUBLISHERS B.V., GB. vol 42, no 12, June 2001 (2001-06), pages 5389 - 52399			
	CE	STARCK P ET AL "Thermal properties of ethylene/long chain alpha olefin copolymers produced by metallocences" JANUARY 2002 (2002-01), EUROPEAN POLYMERS JOURNAL, PERAMON PRESS, LONDON, GB, pages 97 - 107			
	CF	YOON J-S ET AL: "Thermal and mechanical properties of ethylene/alpha-olefin copolymers produced over (2-MeInd) ZrCl ₂ /MAO system" June 2000 (2000-06), POLYMER ELSEVIER SCIENCE PUBLISHERS B.V. GB, pages 4523 4530.			
	CG	BRUASETH I ET AL: "Crystallization analysis fractionation of ethene/1-hexene copolymers madee with the MAO-activated dual -site (1,2,4- Me3Cp....." October 2004 (2004-10), POLYMER, ELESEVIER SCIENCE PUBLISHERS B.V. GB, pages 7853 - 7861.			
	CH	GRAEF S M ET AL: "Copolymerization of propylene with higher alpha-olefins in the presence of the syndiospecific catalyste i-Pr (Cp) (9-Flu)...." 1 January 2002, J POLYM SCI PART A; JOURNAL OF POLYMER vol. 40, nr. Pages 128 - 140			
	CI	ROSTHAUSER J W ET AL: " MECHANICAL AND DYNAMIC MECHANICAL PROPERTIES OF POLYURETHANE AND POLYURETHANE/POLYUREA ELASTOMERS BASED ON 4, 4-DIISOCYANATODICYCLOHEXYL METHANE" 2 May 1997 (1997-05-02) JOURNAL OF APPLIED POLYMER SCIENCE, JOHN WILEY AND SONS INC. NEW YORK, NY, US, pages 957 -970			
	CJ	BASAK SHAM: " Zurcon Z20/Z22" 10 August 2002 (2002-08-10), BUSAK SHAMM BAN , CRISSER, the whole document			

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Sheet	7	of	8	Attorney Docket Number	
63558C					

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	CK	Coates, Hustad, and Reinartz in Angew. Chem. Int. Ed. 41, 2236-2257 (2002);		
	CL	Liu and Rytter, Macromolecular Rapid Comm. 22,952-956 (2001);		
	CM	Bruaseth and Rytter, Macromolecules 36, 3026 -3034 (2003);		
	CN	[S]oares and Kim (J. Polym. Sci. Part A: Polym Chem, 38, 1408 -1432 (2000)		
	CO	Heiland and Kamisksy (Makromol. Chem. 193, 601-610 (1992);		
	CP	Polym Sci, Part A Polym Chem 37, 2439-2445 (1999);		
	CQ	Makromol..30,3447-3458 (1997);		
	CR	Przbyla and Fink (Acta Polym., 50 77-83 (1999);		
	CS	Lieber And Brintzinger (Macromol. 3, 9192 -9199 (2000);		
	CT	Rytter, et al. Polymer, 45, 7853 -7861;		
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				Art Unit	1796
				Examiner Name	Choi, Ling Siu
Sheet	8	of	8	Attorney Docket Number	63558C

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